

**VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM
(Deemed to be University)**

**B.SC. (PERFUSION TECHNOLOGY) DEGREE
EXAMINATION August 2019
Third Year
PERFUSION TECHNOLOGY - APPLIED**

Time: Three hours

Maximum: 75 marks

I. Write an essay on any ONE of the following: (1 x 20 = 20)

1. Explain the types of emboli that can occur during CPB?
2. Write an essay on IABP. Where is it contraindicated?

II. Write short notes on any TWO of the following: (2 x 10 = 20)

3. Micropore filtration during CPB.
4. Anti-coagulation on bypass.
5. Blood cell trauma due to CPB.
6. Cell saver.

III. Write short answers on any SEVEN of the following: (7 x 5 = 35)

7. What are the physical forces that cause haemolysis during CPB?
8. What is heparinless bypass? Give example.
9. Write notes on cytokines.
10. Mention some coated oxygenators.
11. Complications of blood transfusion.
12. Autologous blood transfusion – how is it done?
13. How will you manage SIRS during CPB?
14. Haemofiltration during CPB.
15. What is heparin resistance / antithrombin – III deficiency?
16. Protamine and its reaction.
